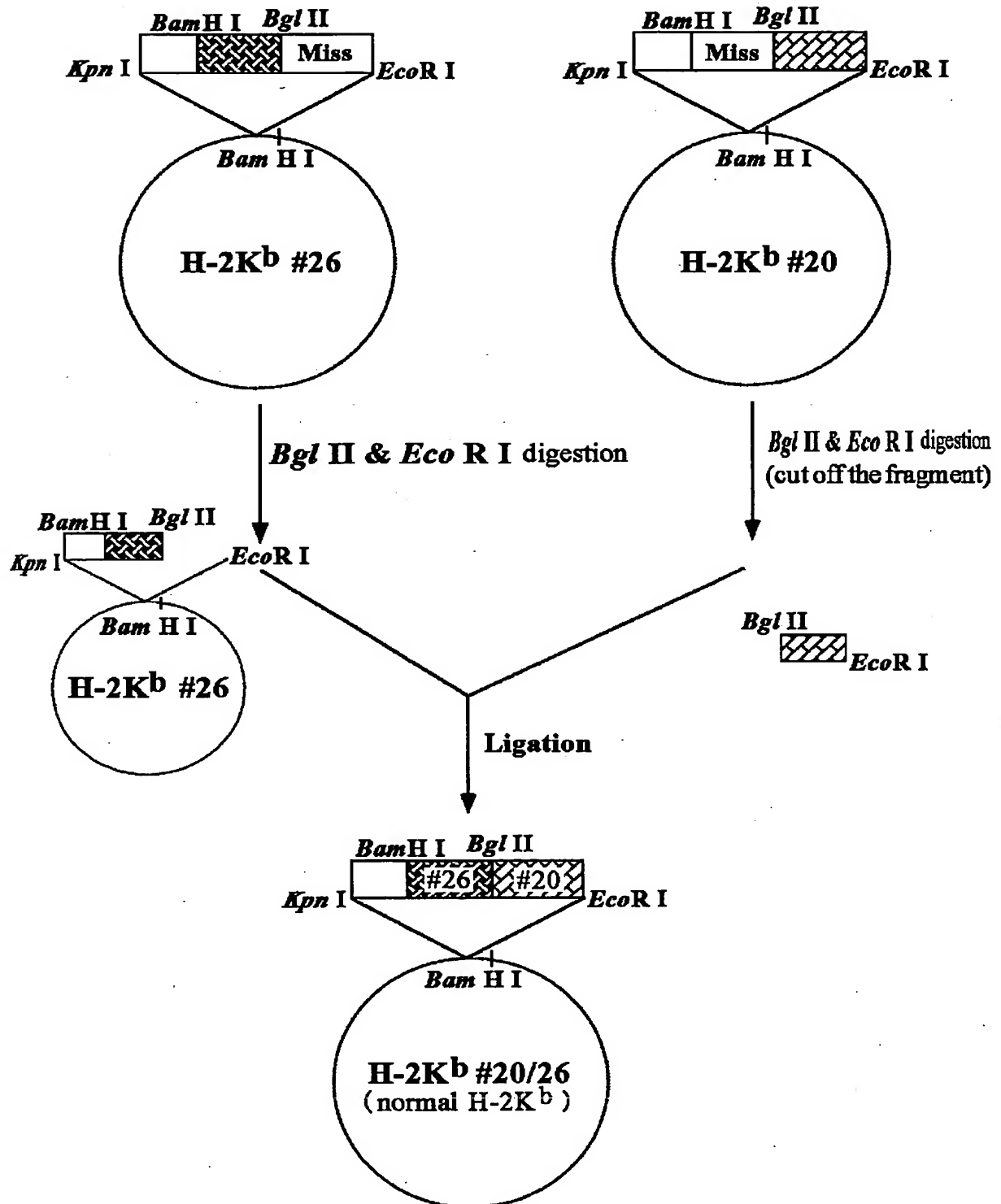


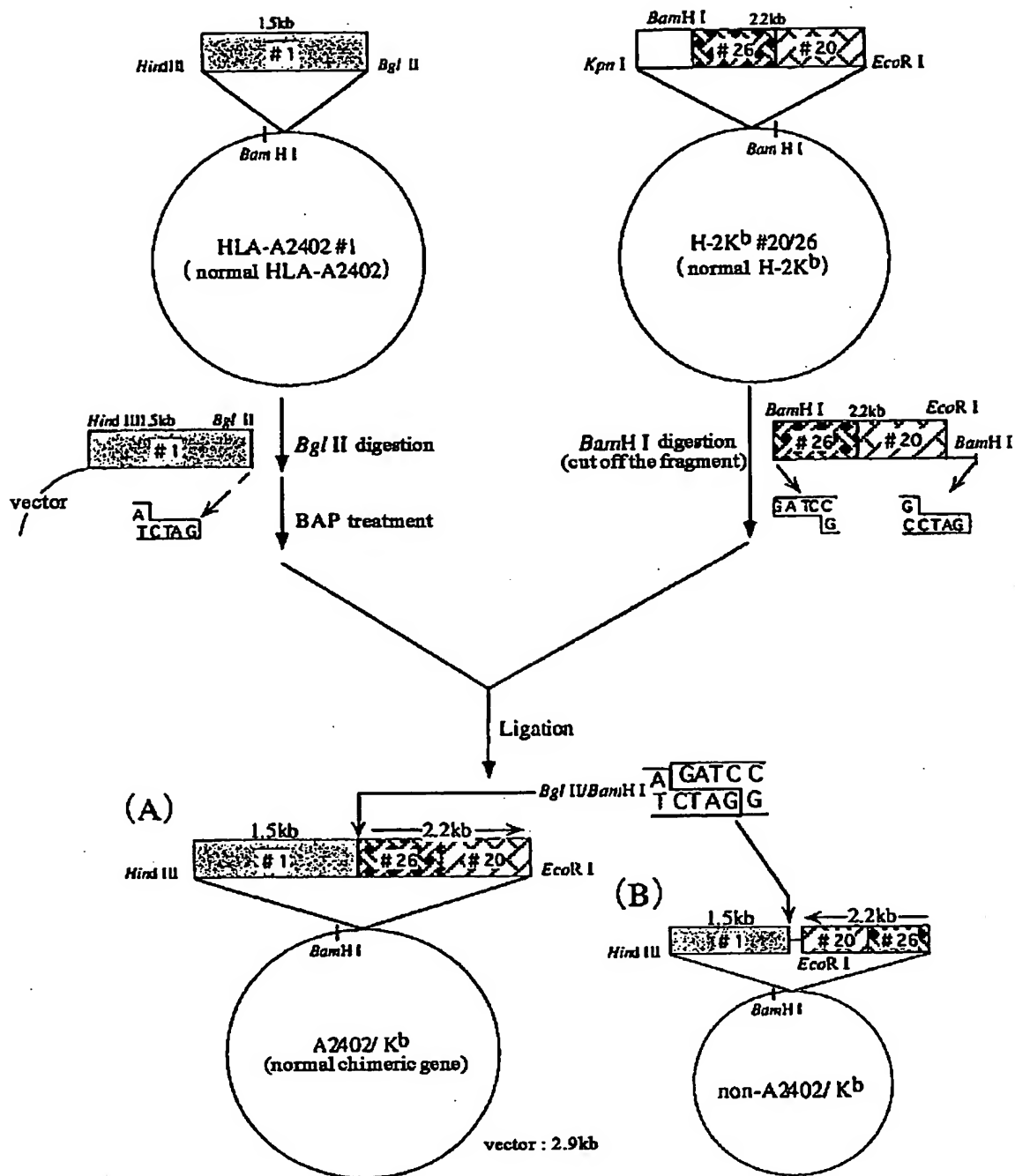
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Fig. 1



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Fig. 2



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Fig. 3

HLA-A2402/Rb genome HLA-A2402/Rb cDNA	100	AAGCTTACTC TCTGGCACC AACTCCATG GATGATTTT CTCTAGAG AGTCAGGTG GACAGTTAG GAGTGGAGT CAGGAGTCC AGTTACAGGA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	200	CAGAGATTAC GGGATGAAA GTGAAAGAG AGGACGGGG CCATGCCGA GGGTTTCTCC CTGTCTTCTC AGACAGTCT AGGCCCAAGA TTCAGGGAGA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	300	CATTGAGACA GAGGGCTTGG CACAGAGCA GAGGGGTGAG GGGAGATCC CAGGGCCCCA GGGGTGGCTC TCAGGGTCTC AGGCCCCGAA GGGGGTGTAT
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	400	GGATTGGGGA GTCCAGCCT TGGGGATCC CCACTCCGC AGTTCTTTT CTCCCTCTCC CAACCTATGT AGGGTCTCTC TTCTCTGGATA CTCACGACGC
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	500	GGACCCAGTT CTCACGCCA TTGGGTGTGG GGTTCACGA GAAGCCAATC AGTGTGGTGG CGGTCGCTGT TCTAAAGTCC GCACGCCACC ACCGGGACTC
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	600 73	AGATTCTCC CAGACGCCA GATGGCCGT CATGGGCCC CGAACCTCTG TCTCTCTACT CTGGGGGCC CTGGCCCTGA CCCAGACCTG GGCAGTTGAG ATGGCCGT CATGGGCCC CGAACCTCTG TCTCTCTACT CTGGGGGCC CTGGCCCTGA CCCAGACCTG GGCAG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	700 73	TTGGGGTGG GGGGGAAC GGCCTCTGG GGGAGAGCA AGGGGCCGC CTGGCGGGG CGCAGACCC GGGAGGCCG GGGTCGGGG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	800 148	GGTCTCAGCC ACTCTCTGTC CCCAGCTCC CACTCCTG GGTATCTC CACATCTGTT TCGGGGCCG GCGCGGCCG GCGCGGCCG ATCCGCTGG GCTCC CACTCCTG GGTATCTC CACATCTGTT TCGGGGCCG GCGCGGCCG GCGCGGCCG ATCCGCTGG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	900 248	CTTAAGTGA CGACAGCAG TTGTGCGGT TCGACAGCA GCGCGGAGC CAGAGGATG AGCGGGGGC GCGGTGGATA GAGCAGAGG GCGCGGAGTA GCTAAGTGA CGACAGCAG TTGTGCGGT TCGACAGCA GCGCGGAGC CAGAGGATG AGCGGGGGC GCGGTGGATA GAGCAGAGG GCGCGGAGTA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	1000 343	TTGGAGGAG GAGCAGGGA AGTGAAGC CCACTCAGC ACTGACCGG AGAAGCTGG GATCGGCTC GCTACTTACA ACCAGAGCA GCGCGGTGAG TTGGAGGAG GAGCAGGGA AGTGAAGC CCACTCAGC ACTGACCGG AGAAGCTGG GATCGGCTC GCTACTTACA ACCAGAGCA GCGCGGTGAG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	1100 343	TGACCCCGGC CCGGGGCGA GGTACGACC CTTCTATCC CAGGAGCGG CCGGGTCCG CACAGTCTCC GGGTCCGAGA TCCACCCCGA AGCCGCGGGA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	1200 343	CCCGAGACC CTTGCCCGG GAGAGGCCCA GGGGCTTAA CCGGGTTTCA TTTCAGTTT AGGCCAATAA TCCCCCGGG TTGGTCCGGG CCGGGCGGGG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	1300 407	CTCGGGGAC TGGGTGACC GCGGGTGG GGCAGGTTT TCACACCTC CAGATGATG TTGGGTGCA GGTGGGTGG GAGGGGCTT TCTTCGCGG GTTT TCACACCTC CAGATGATG TTGGGTGCA GGTGGGTGG GAGGGGCTT TCTTCGCGG

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Fig. 4

HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> GTACACACAG TACGCTACG AGGCGAGGA TTACATGCGC CTGAAGAAG AGCTGGGCTC TTGGACCCGG GGGACATGG GGGCTCAGAT CACCAAGCGC GTACACACAG TACGCTACG AGGCGAGGA TTACATGCGC CTGAAGAAG AGCTGGGCTC TTGGACCCGG GGGACATGG GGGCTCAGAT CACCAAGCGC </p>	1400 507
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> AAGTGGAGG GGGGCGATGT GGGGAGCAG CAGAGAGCCT ACCTGGAGG CAGTGGGCTC GAGGGGCTC GAGGATCCT GGGAGCGG AAGGAGCGC AAGTGGAGG GGGGCGATGT GGGGAGCAG CAGAGAGCCT ACCTGGAGG CAGTGGGCTC GAGGGGCTC GAGGATCCT GGGAGCGG AAGGAGCGC </p>	1500 607
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> TGCAGCGGAC GGGTACAGG GGGCAGCGGG CGGCTACCTG ATGCGCTGTA GATCTGTGT GACACACCTG TACCTTGTC CCCAGATCA GGGCTGGGA TGCAGCGGAC GG </p>	1600 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> GTCAATTTCT CTGGCTACAG ACITAGTGT GGGCTGTTCAC TTGGACTGAC AGTTAATGTT GGTACAGCAAG GTGACTACAA TGGTTGAGTC TCATGTGTGT </p>	1700 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> CACCTTCAG GATCATACAG CCTAATTTT AATATGAAT CAACACATA TTAATTAAT TAAATTTGCT TCCCTCTCTC ATTCTTTGAC TACCTCTCTC </p>	1800 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> ATGCTATTGA ACATCACATA AGGATGGCCA TGTTTACCA ATGGCTCATG TGGATTCCT CTGAGCTTCT GAGTCCCAA AGAATATGT GAGTCTGTGT </p>	1900 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> CTGAGGGGAC CAGCTCTGCT TTGTGTCAT AGTGGATCA CAGTTGAAT GTCAACAGA CACATGTTC ACTGTATCA TTGATTTAAC TGAATCTGTG </p>	2000 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> GTAGATTTC GTTGTCTTG TTAATGTGT GATTCTTAA ATCTTCACA CAGATTCCTC AAGGCTCAT GTGACCATC ACGAGACCC TGAAGATAA ATCTTC AAGGCTCAT GTGACCATC ACGAGACCC TGAAGATAA </p>	2100 666
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> GTACACCTGA GTGCTGGGC CTGCGGCTC TACCTGTCTG ACATCACCT GACCTGGGAG TTGAATGGG AGGAGCTGAT CCAGGACATG GAGCTGTGTG GTACACCTGA GTGCTGGGC CTGCGGCTC TACCTGTCTG ACATCACCT GACCTGGGAG TTGAATGGG AGGAGCTGAT CCAGGACATG GAGCTGTGTG </p>	2200 766
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> AGACCAAGCC TGCAGGGGAT GGAACCTTCC AGAAGTGGC ATCTGTGTG GTGCGCTCTG GGAAGGAGCA GTATTACACA TCCCATGTGT ACCATCAGG AGACCAAGCC TGCAGGGGAT GGAACCTTCC AGAAGTGGC ATCTGTGTG GTGCGCTCTG GGAAGGAGCA GTATTACACA TCCCATGTGT ACCATCAGG </p>	2300 866
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> GCTGCTGAG CCCCTCACCT TGAGATGGG TGAAGAGT GTGGGTGAG AGCTGGGCTC AGGGAAAGCT GGAGCTTTCT GCAGACCTCT AGCTGTCTCAG GCTGCTGAG CCCCTCACCT TGAGATGGG </p>	2400 895
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> GGCTGAGAC TGGGGTCAAT ACCCTCACT TCAATTTCTG TACCTGTCT TCCCAAGCC TCCTCCATCC ACTGTCTCA ACATGGGAC GGTGTGTGT AGCC TCCTCCATCC ACTGTCTCA ACATGGGAC GGTGTGTGT </p>	2500 939
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	<p> CTGTGTGTCT TTGGAGTGC AATAGTCACT GGAGTGTGG TGGCTTTTGT GATGAGATG AGAAGGAGAA ACACAGTAG GAAGGGCAG AGTCTGAGTT CTGTGTGTCT TTGGAGTGC AATAGTCACT GGAGTGTGG TGGCTTTTGT GATGAGATG AGAAGGAGAA ACACAGTAG </p>	2600 1015

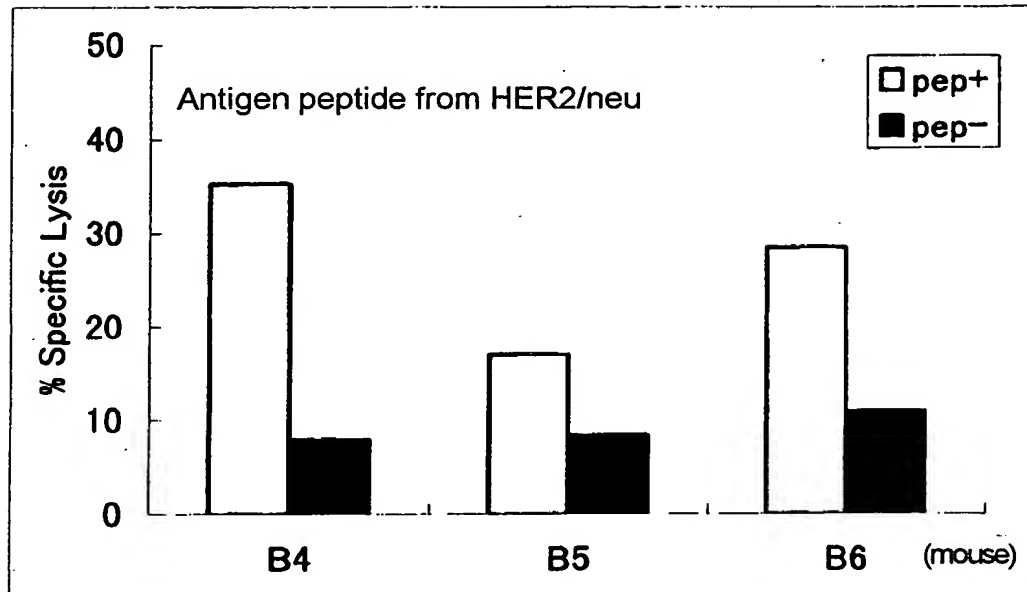
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Fig. 5

HLA-A2402/Kb genome	TTCTCTCAGC CTCCCTTACG GTGTGCTCTG CTATCAATG GGGACACAG GGCACCCCA CATTGCTACT GTCTCTAACT GGGTCTCTG TCAGTCTG	2700
HLA-A2402/Kb cDNA	-----	1015
HLA-A2402/Kb genome	GNACTTCCTA GTGTCAAGAT CTTCCTGGAA CTCTCACAGC TTTTCTCTTC ACATGTGAA AAGGAGGGGA CTATGCTCTG GCTCCAGTTC AGTGTGGGGA	2800
HLA-A2402/Kb cDNA	-----	1048
HLA-A2402/Kb genome	CAGAGTTGTC CTGGGACAT TGGAGTGAAG TTGGAGATGA TGGAGCTCTT GGGATCCAT ATAGCTCTT CCAGAGAAAT CTCTAGGTG CCTGAGTGT	2900
HLA-A2402/Kb cDNA	-----	1048
HLA-A2402/Kb genome	GCCATGAAAT GAATATGTAC ATGTACATAT GCATATACAT TTGTTTGT TTACCTAG CTCCGAGAC TCTGATCTGT CTCTCCAGA TTGTAAAGT	3000
HLA-A2402/Kb cDNA	-----	1087
HLA-A2402/Kb genome	GACACTTAG GGTCTGAATG GGGAGGGGCA ATGTGACAT GATGGGTT CAGGAACCTC CAGATCCC TGTGAGTAG TGATGGGTG TTGAGTGT	3100
HLA-A2402/Kb cDNA	-----	1087
HLA-A2402/Kb genome	GTCTTCACAG TGAATGTCA TGACCTCAT TCTCTAGCGT GAGACAGCT GCTGGAGTG GACTTGTGA CAGACATGT CTCTCATAT CTCTGTGAC	3200
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	ATCCAGAGCC CTCAGTCTC TTATGTCAAG TGCTGTAGT TCCTGTGAG CCTATGACT CAATGTGAG AACTGTGGAG CCGAGTCCAC CCCTCTACAC	3300
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	CAGGACCCTG TCCTGCACT GCCTGTCTT CCCTTCACA GCGACCTTG CTGGTTCAGC CAAACACTGA GGGACATCTG TAGCTGTCA CTTCCATGCT	3400
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	ACCTGACCT GCACTCTC ACTTCACAC TGAGATAT ATTTGATG TAACTTGT TGTATCTC TTGACCTAGG CTTGATTTCT TGTAAATTC	3500
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	ATGGATTGAG AATGCTTAG GGTTTTGT GTTCTTTGA TTGATTTGT TTTTGAAGA AATTAATGAT AGATGAATAA ACTTCAGAA TCTGGGTAC	3600
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	TATGCTGTGT GTATCTGTG GACAGAGATG AGACTTAGC ACCTGAGTGT GACAGGGCT GTGCCAGGT GGGCTAGTT TGTATTGATC TGTGATGGG	3700
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	CCACACCTCC ACTGTGTAC CTCTGGGTC TGTCCCTCT ATCACTAGA GGCATGCT GAGATTTGT GGTCAAAAG ACACAGGAA GGCCTGAGCC	3800
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	TTCCTCTGTC CCCAGATTA TGACCCCCA GGGCTAAGA TCAGAGACT GGAATTC	3857
HLA-A2402/Kb cDNA	-----	1119

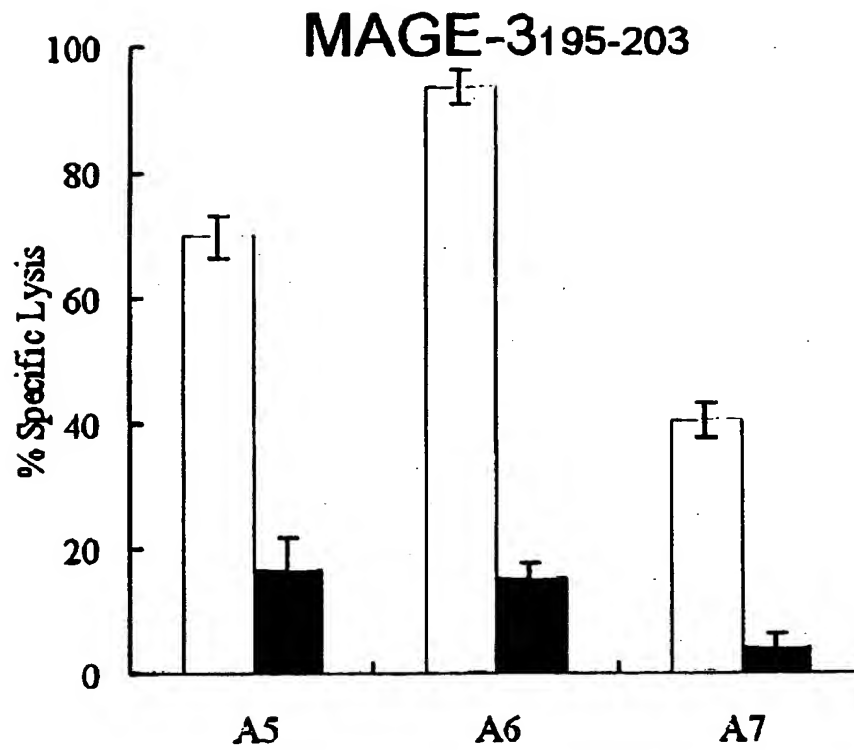
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Fig. 6



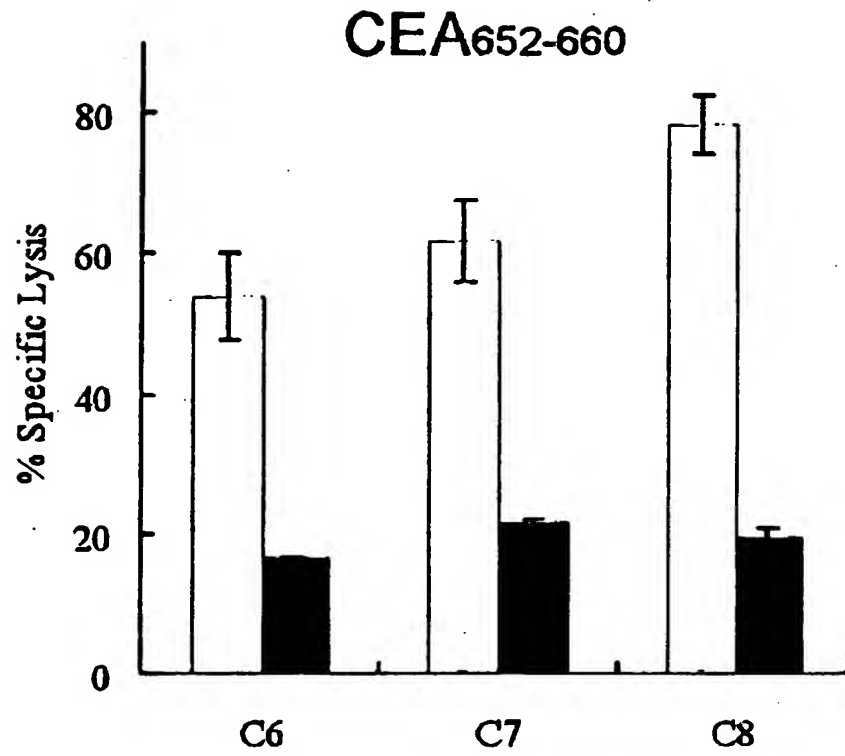
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Fig. 7



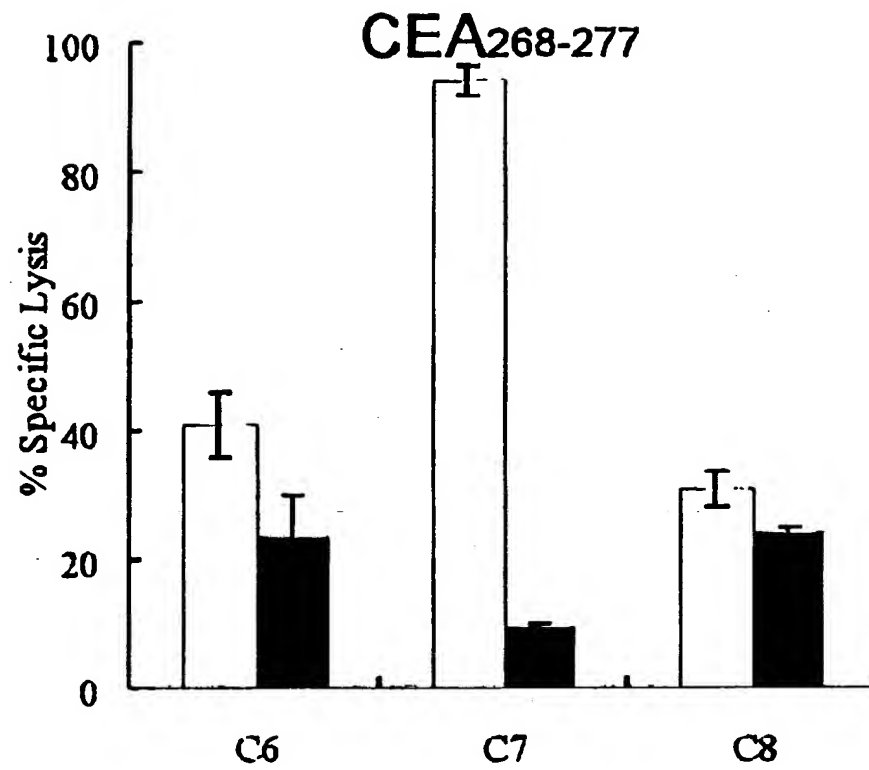
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Fig. 8



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Fig. 9



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Fig. 10

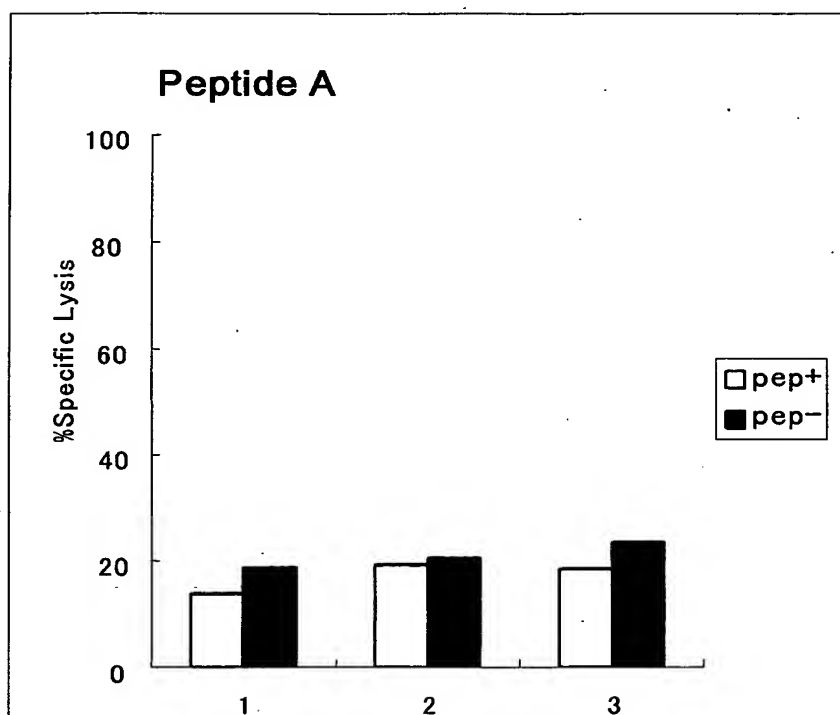
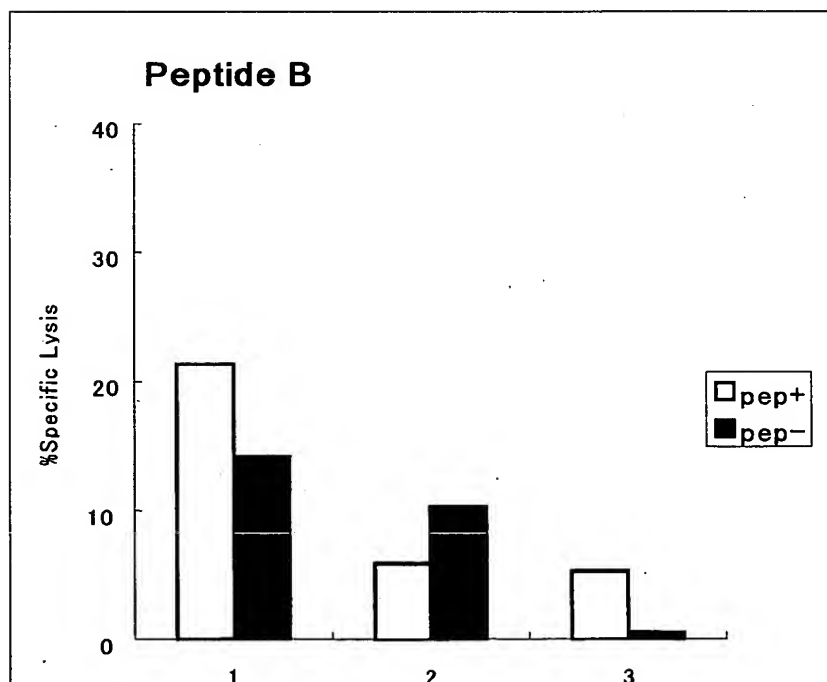


Fig. 11



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Fig. 12

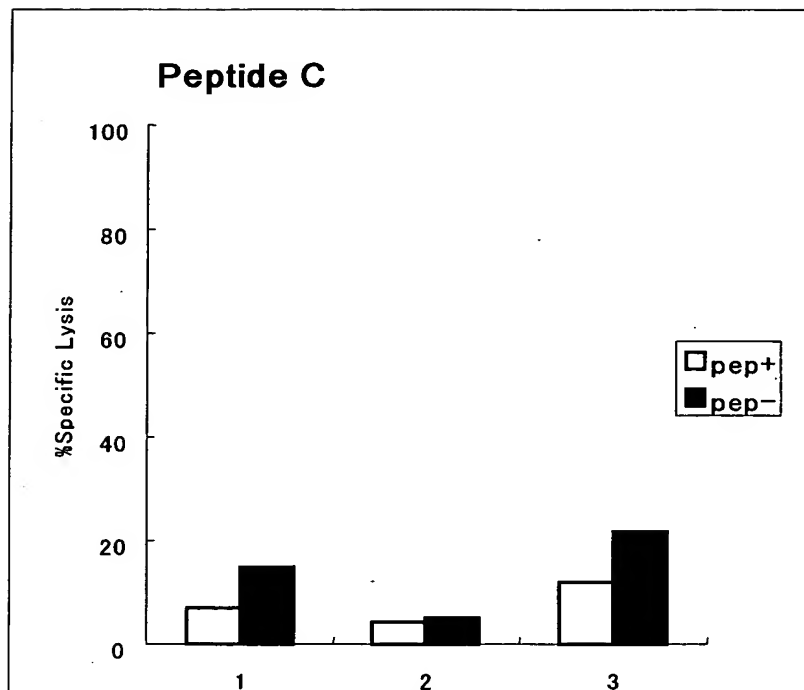
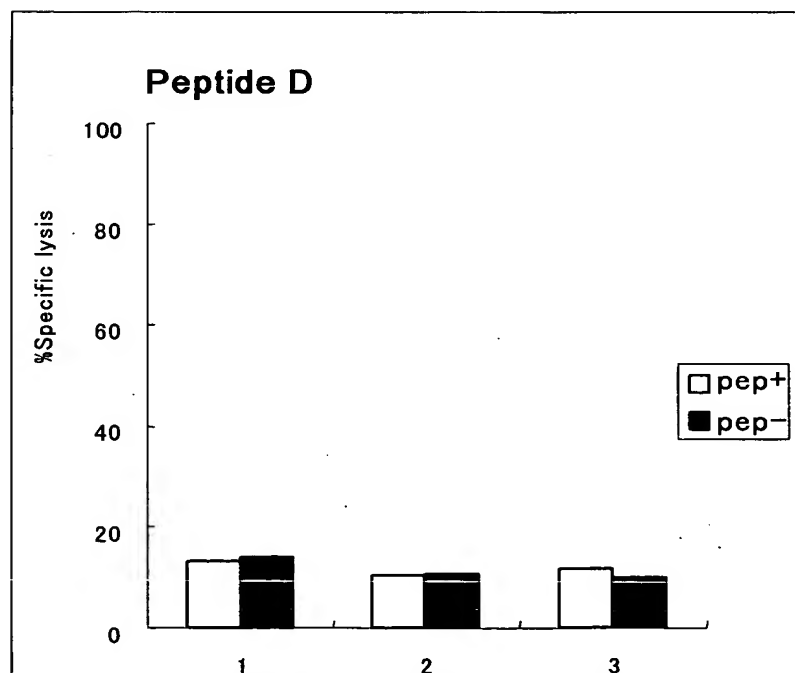


Fig. 13



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Fig. 14

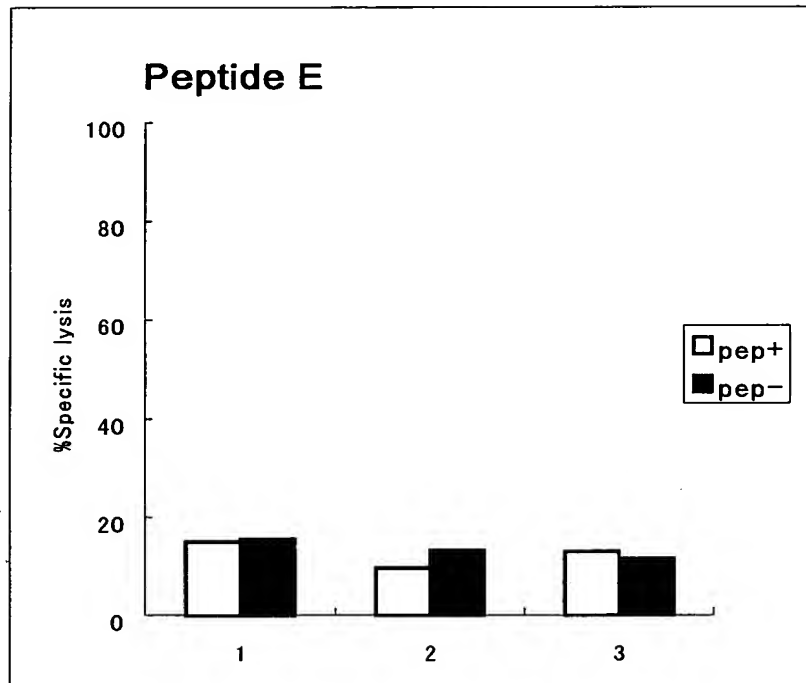
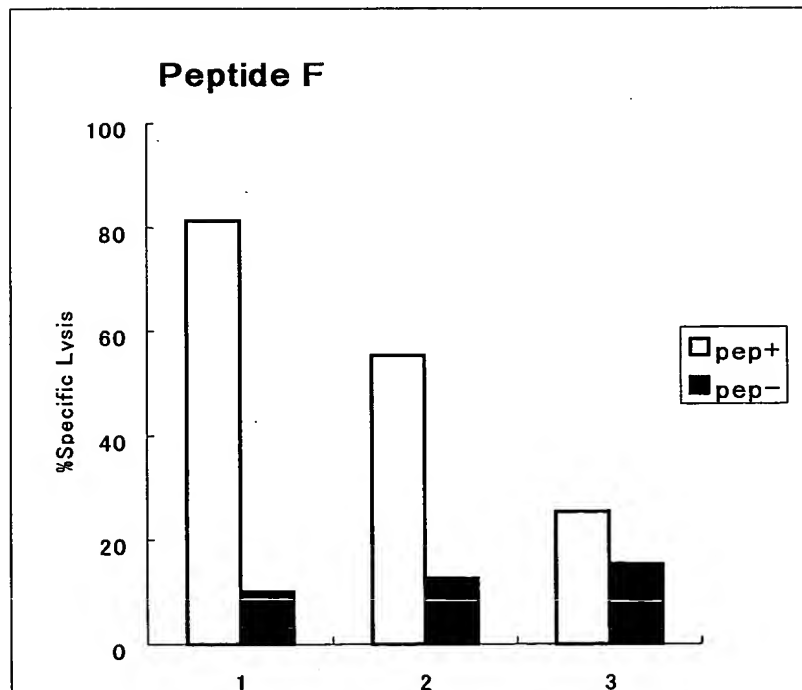


Fig. 15



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Fig. 16

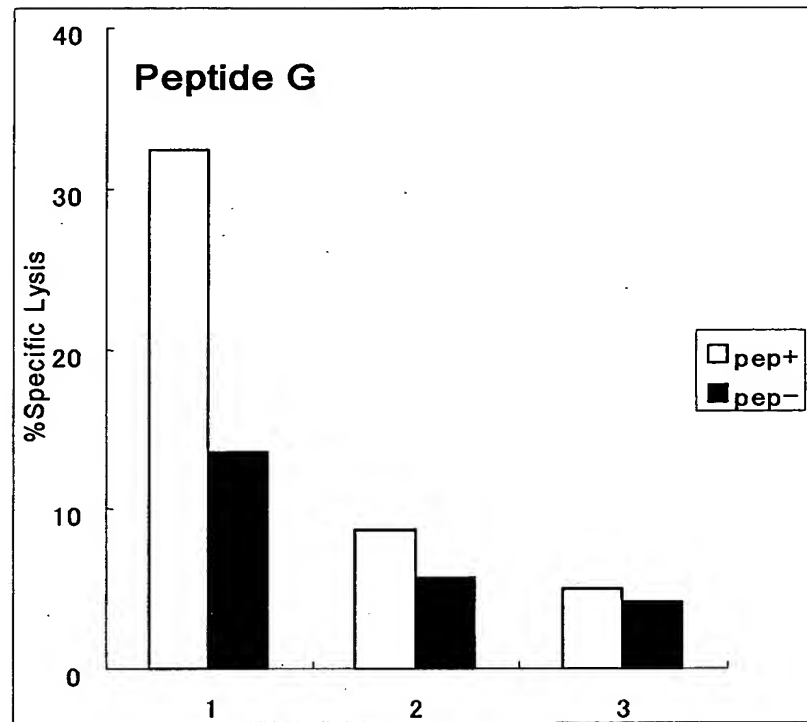
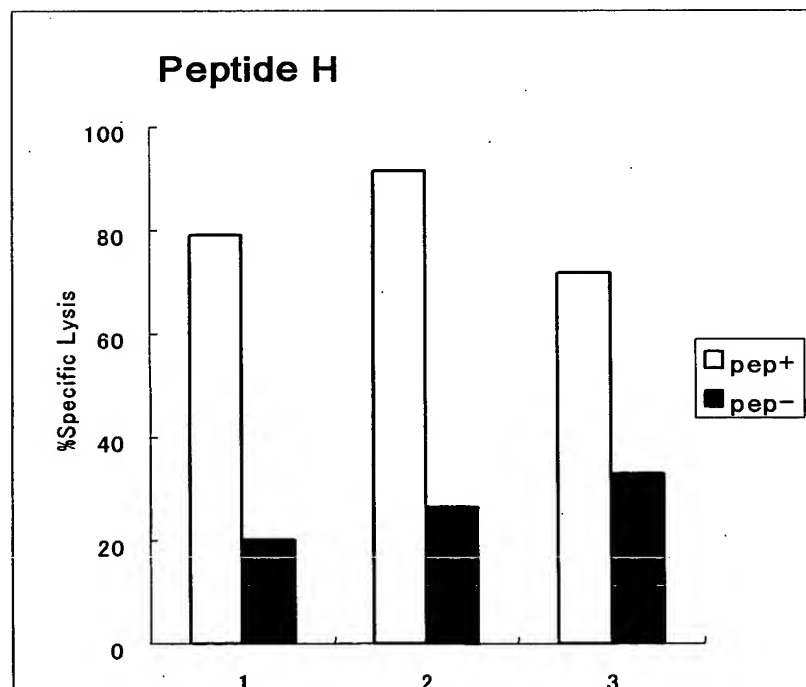
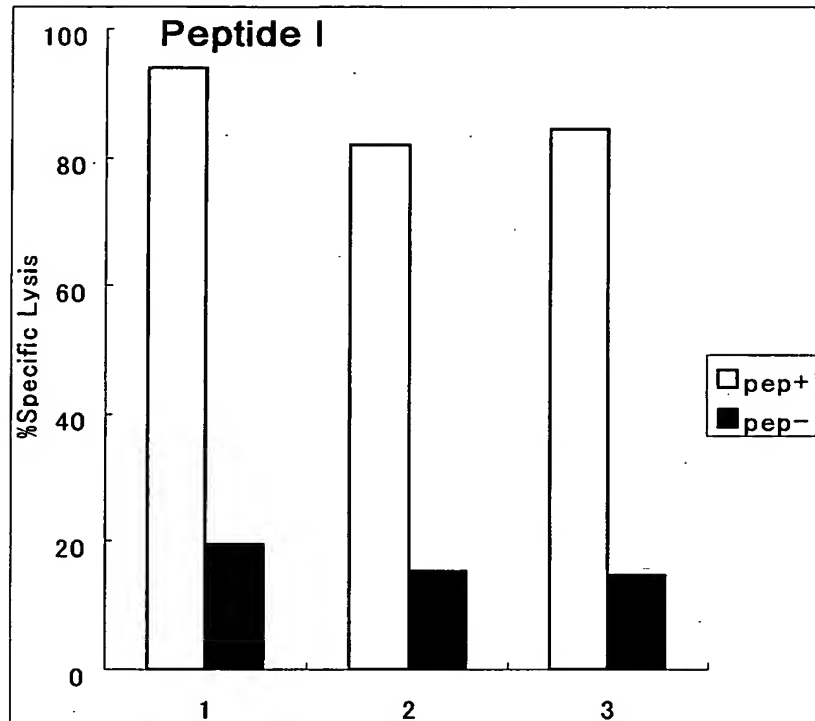


Fig. 17



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Fig. 18



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Fig. 19

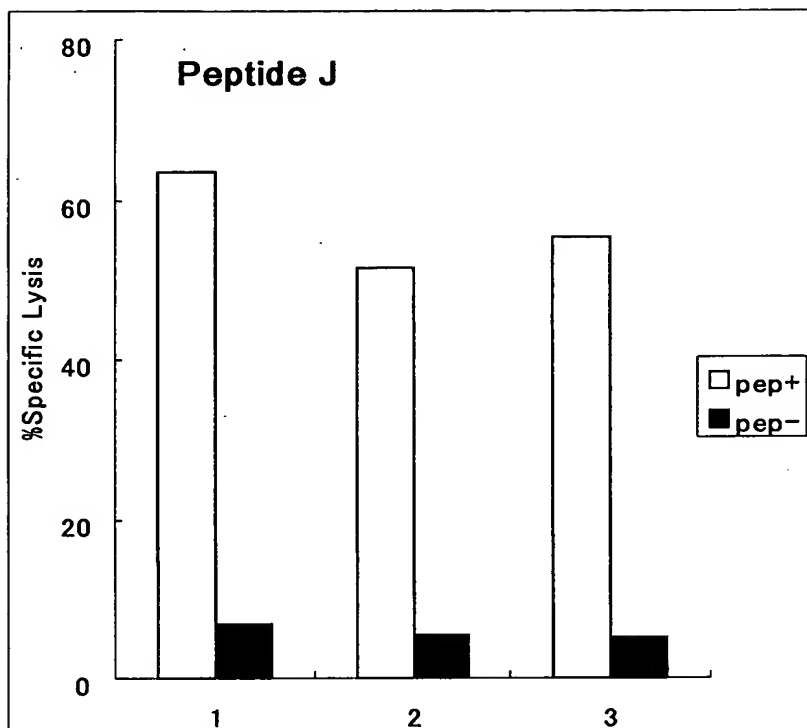
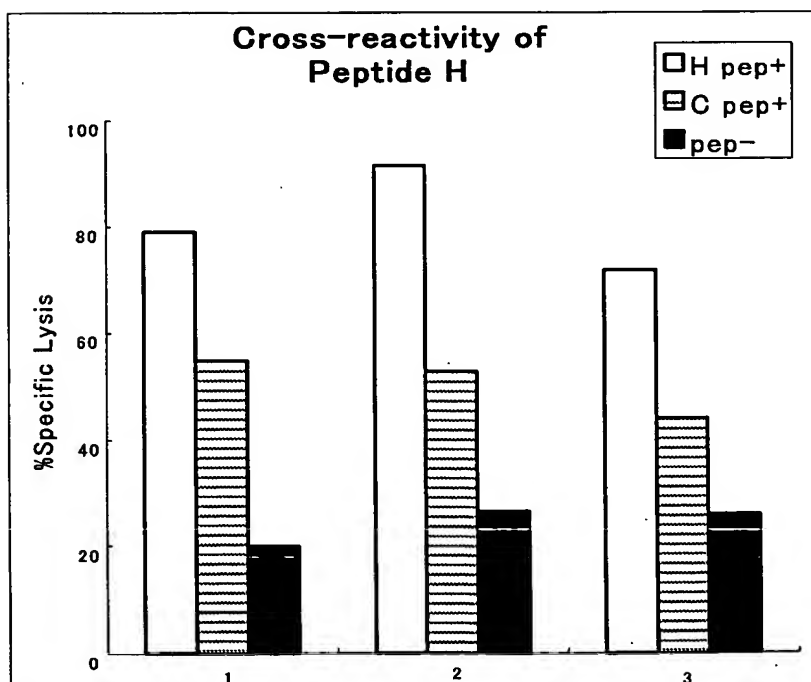


Fig. 20



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Fig. 21

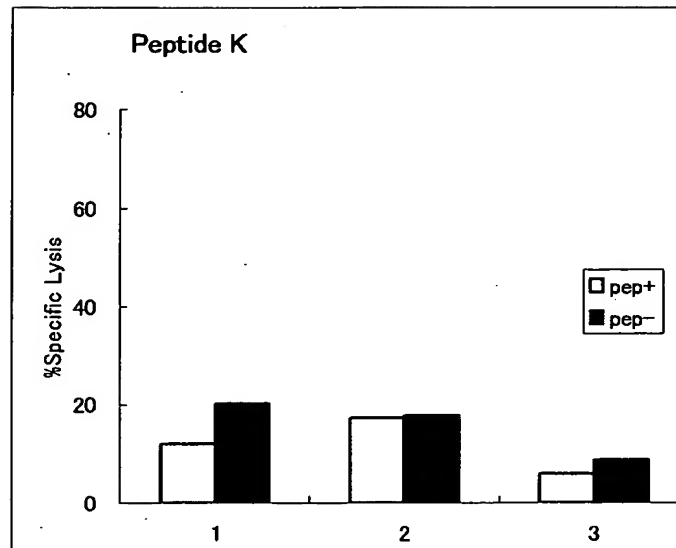
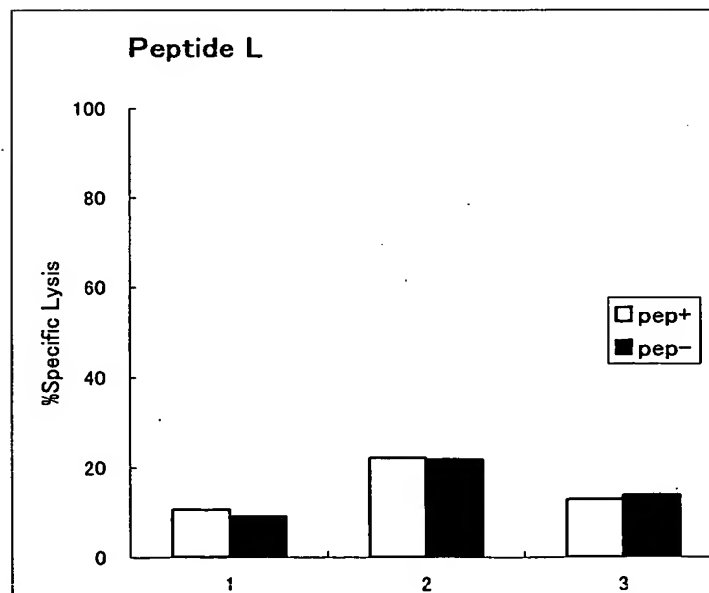
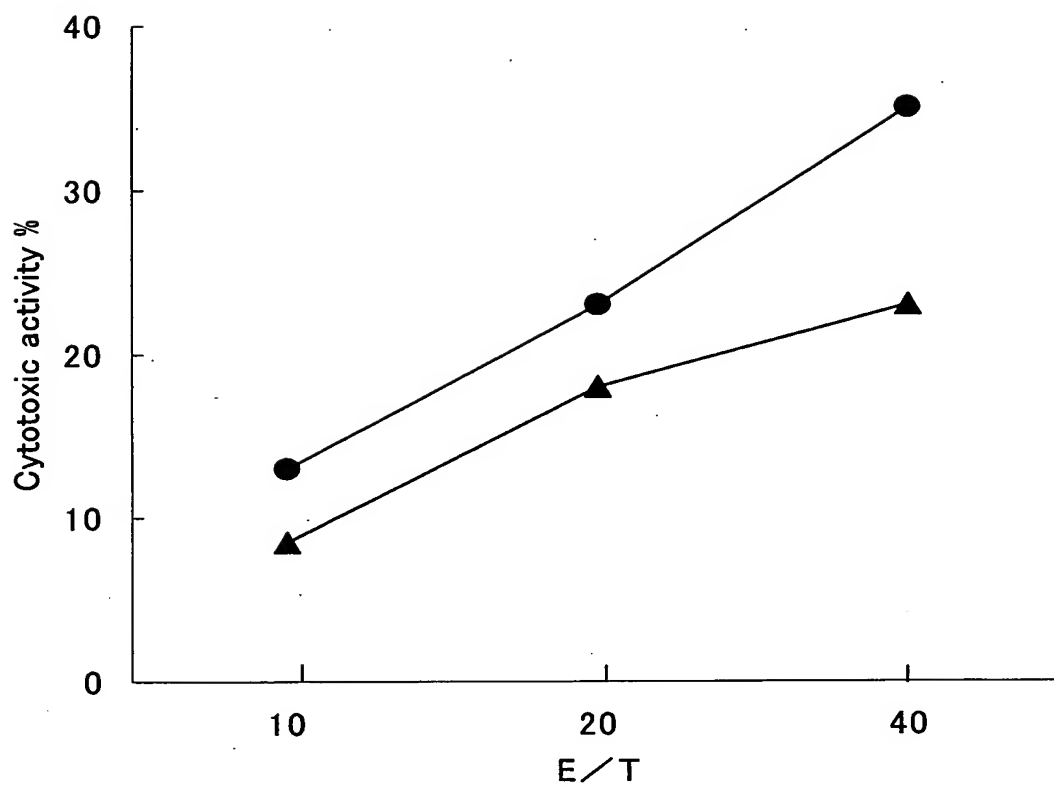


Fig. 22



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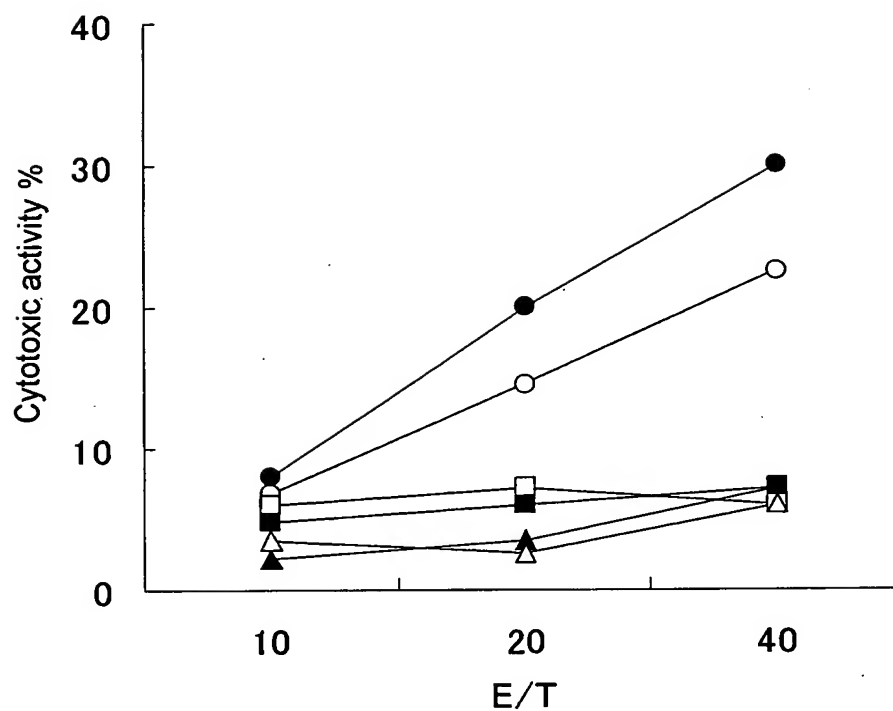
Fig. 23



- Effector cells stimulated with altered peptide
C1R-A*2402 target cells pulsed with natural peptide
- ▲ Effector cells stimulated with natural peptide
C1R-A*2402 target cells pulsed with natural peptide

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Fig. 24



- Effector cells: Altered peptide - stimulated
Target cells: RERF-LC-AI cells (WT1 positive, HLA-A2402 positive)
- ▲ Effector cells: Altered peptide - stimulated
Target cells: LK87 cells (WT1 positive, HLA-A2402 negative)
- Effector cells: Altered peptide - stimulated
Target cells: 11-18 cells (WT1 negative, HLA-A2402 positive)
- Effector cells: Natural peptide - stimulated
Target cells: RERF-LC-AI cells (WT1 positive HLA-A240 2 positive)
- △ Effector cells: Natural peptide - stimulated
Target cells: LK87 cells (WT1 positive, HLA-A2402 negative)
- Effector cells: Natural peptide - stimulated
Target cells: 11-18 cells (WT1 negative, HLA-A2402 positive)

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Fig. 25

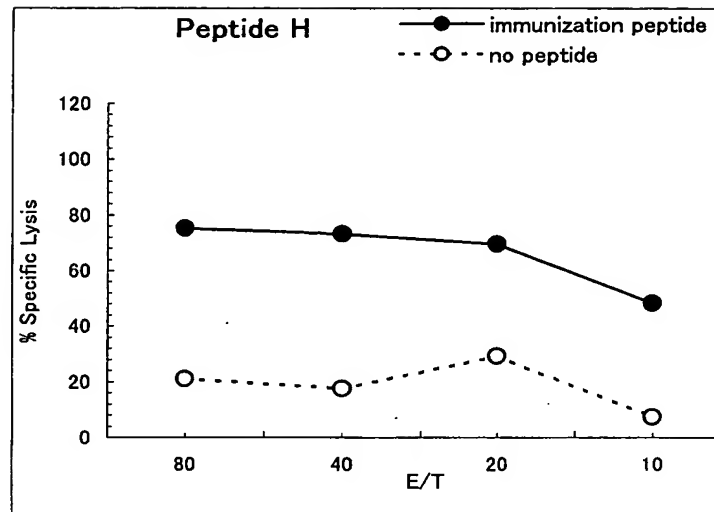
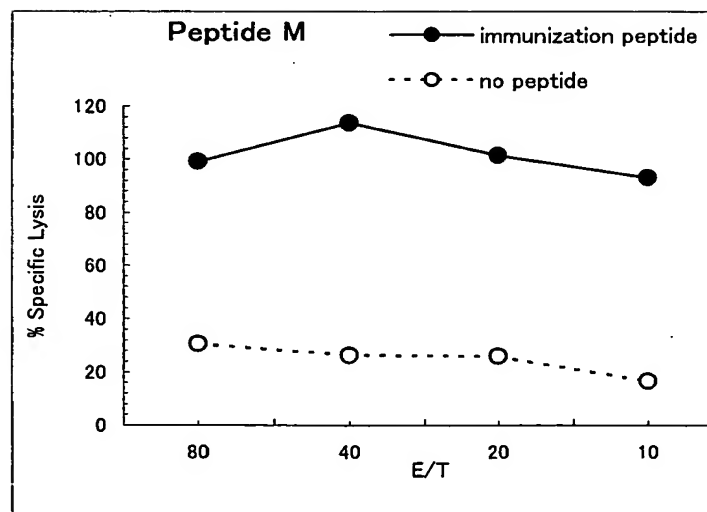


Fig. 26



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Fig. 27

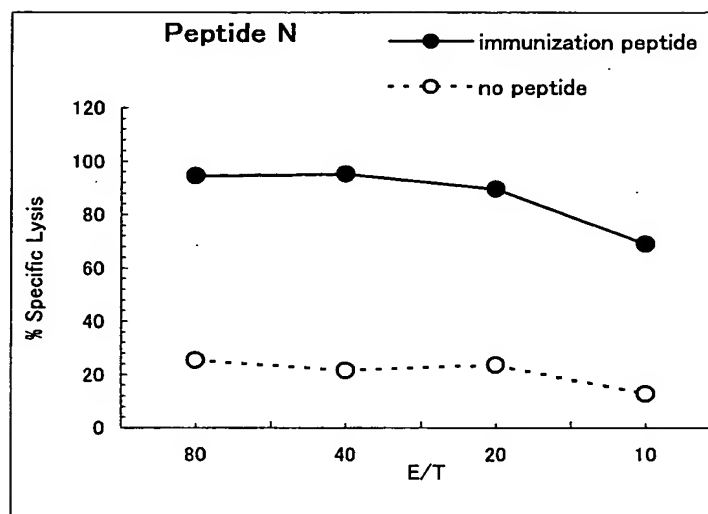
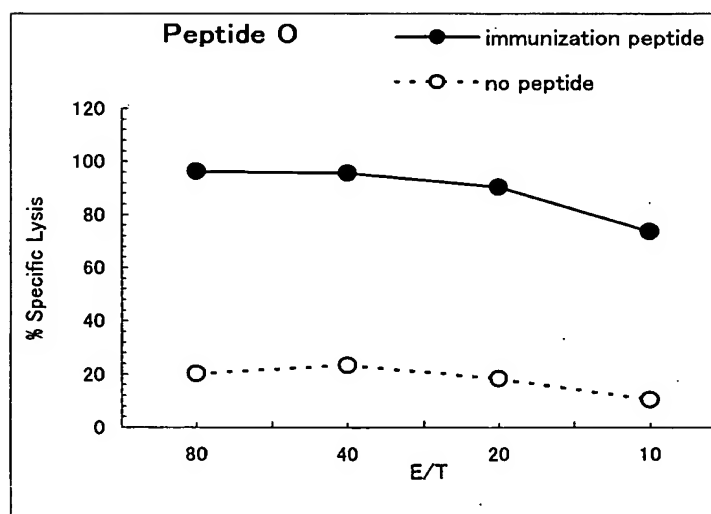


Fig. 28



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Fig. 29

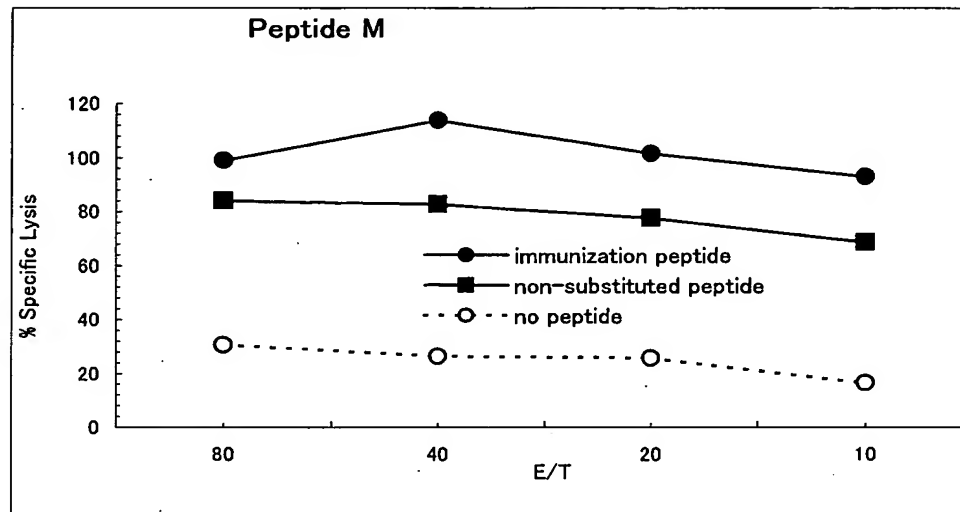


Fig. 30

